

**Defense Information Infrastructure (DII)**

**Common Operating Environment (COE)**

**Software Version Description (SVD)**

**for the**

**Joint Meteorological and Oceanographic (METOC) Viewer  
(MCJMV)**

**Release 3.7.0.0**

**20 December 2002**

**Prepared for:**

**Space and Naval Warfare Systems Command  
Environmental Systems Program Office  
(SPAWAR PMW-155)**

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# **1 SCOPE**

## **1.1 Identification**

This Software Version Description (SVD) describes the Joint Meteorological and Oceanographic (METOC) Viewer - MCJMV version 3.7.0.0 (also referred to as JMV, JMV 3.7 and JMV 3.7.0.0 in this document), which is delivered as a Defense Information Infrastructure (DII) Common Operating Environment (COE) Application Segment. This document has been developed in accordance with DII COE Developer Documentation Requirements (DDR-2). JMV is designed to run on the following platforms:

- IBM-Compatible Personal Computer (PC) running or Microsoft Windows NT with service Pack 6.0 or higher, Windows XP, Windows 2000, or Windows 98.
- Sun SPARC computer running the Sun Solaris operating system, release 8 (the initial release of JMV 3700 does not include a Solaris build).

## **1.2 System Overview**

JMV displays METOC data and information in traditional formats used by forecasters to conduct their business. General forms include maps containing contours, plots, and other weather depictions of METOC variables, cross-sections of ocean and atmospheric variables, plots of vertical variation of METOC variables such as bathythermographs and atmospheric soundings, time series, and time sections depicting measured or forecast changes in METOC variables at selected points. Overlays of weather depictions on satellite imagery facilitate analysis of environmental conditions. Looping of several of these products enhances the forecaster's ability to understand the dynamic aspects of the changing environment.

Fleet Numerical Meteorology and Oceanography Center (FNMOC) has been assigned Space and Naval Warfare Systems Command (SPAWAR) SPACETASK 185-FNOC-98-1(OPN)-0. Under this SPACETASK, FNMOC is tasked to integrate JMV to run as a METOC application in the Navy Integrated Tactical Environmental System (NITES). The integration includes both user interfaces and communications using World Wide Web technologies.

## **1.3 Product Information**

### **1.3.1 Product Qualification**

Test and Evaluation (T&E) of the software were performed at Fleet Numerical Meteorology and Oceanography Center (FNMOC), Monterey, CA, prior to delivery of the software.

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### **1.3.2      Product Restrictions**

Intellectual property rights to deliverables defined in this document are covered by the copyright license under the clause in DFARS 252.227-7013 (Nov. 1995).

### **1.3.3      Product Dependencies**

The JMV segment must be installed on the computer hosting Metcast Client, or be able to remotely link to that computer, in order to provide optimal data access. See the Installation Procedures listed in Section 2.1 for details concerning the installation of the METCAST Client segment. METCAST Client also requires access to a METCAST Server, which is provided as a separate segment. Consult the METCAST Server Segment documentation listed in Section 2.1 for details concerning installation and use of the METCAST Server segment. The server segment, which is actually comprised of three segments, need not be installed on the same machine as the METCAST Client or JMV.

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## **2 REFERENCED DOCUMENTS**

### **2.1 Government Documents**

DDR-2

23 January 1998

*Defense Information Infrastructure (DII)  
Common Operating Environment (COE)  
Developer Documentation Requirements,  
Version 2.0, Defense Information Systems  
Agency, Joint Operability and Engineering  
Organization*

MCJMV.PENTIUM.NT40.3\_7\_0\_0.UG.doc

20 December 2002

*Joint METOC Viewer (MCJMV) Version 3.7  
Series User's Guide.*

MCJMV.PENTIUM.NT40.3\_7\_0\_0.IP.doc

20 December 2002

*Installation Procedures (IP) for the Joint  
METOC Viewer (MCJMV), Release 3.7 Series*

MCCLNT.PENTIUM.NT40.1\_7\_0\_0.IP.doc

20 December 2002

*Installation Procedures (IP) for the  
METCAST Client Segment, release 1.7 Series*

MCCLNT.PENTIUM.NT40.1\_7\_0\_0.UM.doc

20 December 2002

*User Manual (UM) for the METCAST Client  
Segment, Release 1.7 Series*

MCCLNT.PENTIUM.NT40.1\_7\_0\_0.SVD.doc

20 December 2002

*Software Version Description (SVD) for the  
METCAST Client Segment, Release 1.7.0.0*

MCSRVR.SUN.Solaris28.3\_2\_0\_0.IP.doc

17 August 2001

*Installation Procedures (IP) for the  
METCAST Server Segment, release 3.2 Series*

MDMETC.SUN.Solaris28.1\_2\_0\_0.IP.doc

10 August 2001

*Installation Procedures (IP) for the METOC  
Observations Database (MDMETC) Segment,  
Release 1.2 for Solaris*

MDCHNL.SUN.Solaris28.1\_2\_0\_0.IP.doc

10 August 2001

*Installation Procedures (IP) for the METOC  
Channels Database (MDCHNL) Segment,  
Release 1.2 for Solaris*

### **2.2 Non-Government Documents**

None.

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## **3 VERSION DESCRIPTION**

### **3.1 Inventory of Materials Released**

All physical media and associated documentation for the JMV 3700 Segment is listed below.

- Joint METOC Viewer (JMV) Segment v3.7.0.0 Installation CD-ROM for Windows NT 4.0 with Service Pack 6 or higher, Windows 98, and Windows 2000 and Windows XP (also contains installation files for METCAST Client v1.7.0.0 and may contain installation for Quick Weather 1.0.0.0, or the METCAST Client CD-ROM for Sun Solaris version 8 or higher, which also installs the Joint METOC Viewer (JMV) for Sun Solaris (The initial release of JMV 3.7.0.0 does not include a Solaris build)).
- Joint METOC Viewer (JMV) Segment v3.7 Series Installation Procedures (IP), dated 20 December 2002.
- Joint METOC Viewer (JMV) Segment v3.7.0.0 Software Version Description (SVD), dated 20 December 2002.
- (JMV) Version 3.7.0.0 User's Guide (UG) dated 20 December 2002.

### **3.2 Inventory of Software Contents**

A listing of all executables and environment files delivered is contained in Appendix A of this document.

### **3.3 Changes Installed**

A list of changes installed since the 3.0 release is contained in Appendix B of this document.

### **3.4 Waivers**

There are no waivers associated with this software.

### **3.5 Adaptation Data**

There are no unique-to-site data required for JMV 3.7. Program preferences may be set using the Graphical User Interface (GUI) as described in the User's Guide.

### **3.6 Installation Instructions**

The Joint METOC Viewer (JMV) Segment v3.7 Series Installation Procedures (IP) referenced in Section 2 of this document provide comprehensive installation instructions for the JMV 3700

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Segment. The fully installed segment occupies approximately 175 MB of disk space. The software requires a minimum of 128 MB of RAM on Windows NT, Windows XP, Windows 2000, and Windows 98 platforms. A minimum of 2 GB of free disk space is recommended to accommodate data downloaded via the METCAST Client.

The Sun Solaris version of the Joint Metoc Viewer (JMV) is bundled with the METCAST Client software, and occupies approximately 139MB of disc space. 512MB of RAM and 2GB of free disc space is required for the Sun Solaris version of the METCAST Client (The initial release of JMV 3700 does not include a Solaris build).

### **3.7 Possible Problems and Known Errors**

Known problems and errors with JMV 3700 software are listed in Appendix C of this document.

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## **4 NOTES**

### **4.1 Glossary of Acronyms**

COE	Common Operating Environment
DII	Defense Information Infrastructure
FNMOC	Fleet Numerical Meteorology and Oceanography Center
GUI	Graphical User Interface
HTTP	Hyper-Text Transfer Protocol
IP	Installation Procedure
IP	Internet Protocol
JMV	Joint METOC Viewer
METCAST	METOC Broadcast
METOC	Meteorological and Oceanographic
MIME	Multipurpose Internet Mail Extensions
PC	Personal Computer
SRS	Software Requirements Specification
SVD	Software Version Description
T&E	Test and Evaluation
TCP	Transport Control Protocol
UM	User Manual

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## APPENDIX A List of Executables and Environment Files

### A.1 File Structure for Windows NT 4.0/XP/2000/98 Delivery

Directory of C:\jmvwini

```
12/19/2002 03:43p <DIR> .
12/19/2002 03:43p <DIR> ..
12/19/2002 04:14p <DIR> Docs
12/19/2002 03:08p <DIR> JMV-WebHelp
12/19/2002 03:36p <DIR> Noddsfls
03/10/2003 05:26p 87,553 jmv_readme.txt
11/19/2002 10:56p 241,664 Ncspdw.exe
04/26/2002 03:40p 2,275 tmpAnimation.html
4 File(s) 331,562 bytes
```

Directory of C:\jmvwini\Docs

```
05/07/2002 04:14p <DIR> .
05/07/2002 04:14p <DIR> ..
06/01/2001 10:48a 152,723 JMVWarnngKeys.pdf
01/30/2003 03:05p 86,928 MCJMV.PENTIUM-NT40.3_7_0_0.IP.pdf
03/10/2003 12:58p 89,125 MCJMV.PENTIUM-NT40.3_7_0_0.SVD.pdf
03/10/2003 03:46p 4,291,790 MCJMV.PENTIUM-NT40.3_7_0_0.UG.pdf
4 File(s) 4,620,566 bytes
```

Directory of C:\jmvwini\JMV-WebHelp

```
12/19/2002 03:08p <DIR> .
12/19/2002 03:08p <DIR> ..
12/19/2002 03:19p <DIR> Images
02/13/2002 03:52p 2,076 All-Station_List_Dialog.htm
06/05/2002 04:11p 4,700 AnimationToolkit.html
08/16/2000 03:21p 1,815 Annotation_Selections_Dialog.htm
08/16/2000 03:21p 1,670 Bold_Line_Settings_Dialog.htm
03/24/2000 10:38a 4,244 Build_Warning_Message_Dialog.htm
11/01/2002 11:43a 30,193 BuildingAndDisplayingSlideShows.html
08/16/2000 03:27p 3,019 Choose_Port_Dialog.htm
08/16/2000 03:29p 12,512 Choose_Product_Dialog.htm
08/16/2000 03:30p 1,988 Closest_Point_of_Approach_Dialog.htm
10/28/2002 05:20p 4,311 Color_Fill_Settings_Dialog.htm
11/23/2002 01:14p 5,571 Contents.htm
06/18/2002 11:37a 87,897 Copy of JMVMenus.html
11/15/2002 12:41p 20,188 CreatingExtratropicalWindsAndSeasWarnings.html
09/04/2001 06:05p 2,147 Cross_Section_Dialog.htm
06/19/2002 03:56p 6,271 CurrentNamesListDialog.htm
06/01/2001 12:52p 4,935 Data_Thinning_Dialog.htm
09/04/2001 06:32p 2,415 Depth_Profile_Dialog.htm
09/04/2001 06:36p 1,911 Depth_Profile_List_Dialog.htm
05/30/2001 01:33p 3,581 DownloadingData.html
11/23/2002 05:33p 95,201 DrawingAndAnnotationFeatures.html
08/16/2000 03:39p 1,829 Font_Size_Dialog.htm
08/16/2000 03:40p 3,449 General_Color_Settings_Dialog.htm
08/16/2000 03:41p 2,351 Grib_Produce_Selection_Dialog.htm
05/06/1999 12:00a 817 Help.hhh
03/24/2000 10:12a 513 HelpLoader.htm
08/16/2000 03:44p 3,870 High_Winds_And_Seas_Warning_Dialog.htm
06/10/2002 02:35p 3,018 HWD_Line_and_Symbol_Scale_Editor_Dialog.htm
```

11/21/2002	01:44p	1,917 Import_Tif_Image_Dialog.html
11/25/2002	12:46p	3,202 input.html
06/05/2002	01:22p	3,189 InstallingJMV.html
11/23/2002	02:19p	3,023 Introduction.html
05/30/2000	12:05p	9,847 JMV Help.apf
11/06/2000	05:16p	10,728 JMV WebHelp.apf
05/06/1999	12:00a	5,749 JMV_WebHelp_Context.bat
05/06/1999	12:00a	4,964 JMV_WebHelp_Context.csh
11/01/2002	02:25p	16,968 JmvAutoGenerationForSlideShows.html
05/06/1999	12:00a	47 jmvhelp.bat
08/16/2000	03:24p	3,338 JMVHelp.css
11/23/2002	01:00p	45,321 JMVHelp.hhc
11/25/2002	11:01a	315,017 JMVHelp.hhk
05/06/1999	12:00a	62 JMVHelpContext.bat
05/06/1999	12:00a	2,722 JMVHelpContextMap.hh
08/16/2000	03:24p	3,392 JMVHelpNS.css
11/25/2002	11:16a	99,057 JMVMenus.html
04/11/2001	11:07a	10,550 JMVToolBar.html
06/01/2001	12:20p	3,293 Lat_Lon_Grid_Setup_Dialog.htm
08/16/2000	03:46p	2,048 Latitude_Longitude_Dialog.htm
06/05/2002	11:53a	2,669 LaunchingTheViewer.html
08/16/2000	03:46p	3,602 Loop_Setup_Dialog.htm
03/24/2000	10:12a	3,602 Message_Setup_Options_Dialog.htm
08/16/2000	09:54a	5,541 MonitoringRemoteDownloads.htm
03/24/2000	10:12a	2,412 MouseBasics.html
08/16/2000	03:47p	2,560 New_Port_Entry_Dialog.htm
09/05/2001	09:10a	1,888 ObjectEditorDialog.htm
08/16/2000	03:49p	4,440 Observations_Key_Dialog.htm
10/10/2001	04:55p	2,763 OPARS_Flight_Plan_Settings_Dialog.htm
10/10/2001	04:56p	2,760 OPARS_Flight_Plans_Dialog.htm
10/12/2001	12:45p	1,727 PrintCaptionSettingsDialog.htm
08/16/2000	03:52p	2,729 Product_Time_Selection_Dialog.htm
11/25/2002	12:45p	2,611 Publish_Drawing_To_Metcast_Channel_Dialog.htm
11/25/2002	12:46p	3,202
		Publish_Ship_Route_To_Metcast_Channel_Dialog.htm
10/29/2002	05:20p	14,344 RemoteLinkAreas.htm
10/29/2002	03:50p	7,262 ReportingJMVProblems.html
08/16/2000	03:54p	6,129 Satellite_Enhancements_Dialog.htm
08/16/2000	03:55p	2,758 Satellite_Slideshow_Dialog.htm
06/10/2002	02:35p	3,018 SatelliteSlideShowDialog.htm
08/16/2000	03:55p	2,705 Save_HWD_Dialog.htm
08/21/2000	02:02p	1,521 Select_Browse_Parameter_Dialog.htm
05/31/2001	01:07p	12,237 SelectingProducts.html
08/18/2000	11:43a	5,658 SetAlertsDialog.htm
06/10/2002	06:02p	3,662 SetObservationAgeRestrictionsDialog.htm
11/12/2002	05:36p	3,722 SetShipRouteAlertsDialog.htm
06/17/2002	11:17a	9,144 SettingUpRemoteLinkAreas.htm
06/11/2002	04:19p	2,970 ShapeFilesDialog.htm
06/04/2002	12:45p	5,305 Ship_Route_Settings_Dialog.htm
11/11/2002	06:16p	7,269 Ship_Track_Editor_Dialog.htm
06/10/2002	05:34p	3,276 SIGMET_and_AIRMET_Configuration_Dialog.htm
08/16/2000	03:58p	2,319 SIGMET_Configuration_Dialog.htm
08/16/2000	03:59p	4,623 Skew-T_Color_Picker_Dialog.htm
06/05/2002	09:59a	5,700 Slide_Show_Auto_Update_Dialog.htm
06/06/2002	10:37a	4,776 Slide_Show_Selection_Dialog.htm
03/26/2002	03:31p	6,150 SolarisNotes.html
08/16/2000	03:37p	2,174 Spline_Or_Bezier_Selection_Dialog.htm
08/18/2000	01:01p	1,828 Station_Display_Editor_Dialog.htm
08/18/2000	01:02p	2,322 Station_List_Dialog.htm
08/17/2000	01:28p	3,712 Station_Observation_Report_Dialog.htm

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08/18/2000	01:02p	2,685 Sunrise_Sunset_Settings_Dialog.htm
01/08/2001	01:14p	38,203 The_Skew-T_Log_P_Diagram_Window.htm
11/25/2002	12:46p	224 TidyOut.log
08/18/2000	01:03p	3,657 Toolbar_Editor_Dialog.htm
11/25/2002	12:47p	5,628 Tracks_Dialog.htm
06/06/2002	02:14p	2,285 Tropical_Storm_Settings_Dialog.htm
11/21/2002	12:11p	3,455 Tropical_Storms_Dialog.htm
08/18/2000	01:05p	2,324 Upper_Air_Data_Editor_Dialog.htm
08/18/2000	01:05p	2,700 Upper_Air_Sounding_Selection_Dialog.htm
03/24/2000	10:38a	4,244 Warning_Message_Dialog.htm
08/18/2000	01:06p	1,866 Warning_Message_Times_Dialog.htm
05/06/1999	12:00a	36,542 WebHelp.cab
05/06/1999	12:00a	1,578 WebHelp.csh
05/06/1999	12:00a	115,141 WebHelp.zip
11/23/2002	05:27p	20,956 WhatsNew.html
05/06/1999	12:00a	1,042 WHIEInd.htm
05/06/1999	12:00a	1,041 WHIEToc.htm
06/03/2002	03:35p	274 WHStart.htm
02/13/2002	11:26a	1,053 WHToc.htm
08/16/2000	08:33a	12,987 WindowBasics.html
06/19/2002	02:44p	11,070 WorkingWithAIRMETS.html
06/06/2002	12:01p	15,270 WorkingWithMETARReports.html
10/12/2001	11:15a	3,721 WorkingWithOPARSRoutes.html
06/05/2002	02:37p	7,138 WorkingWithPIREPS.html
06/06/2002	12:08p	4,401 WorkingWithSatelliteImagery.html
11/25/2002	11:58a	18,371 WorkingWithShipRoutes.html
06/06/2002	11:55a	9,408 WorkingWithTAFForecasts.html
10/12/2001	11:26a	14,139 WorkingWithThreeDimensionalData.html
11/13/2002	09:55a	15,929 WorkingWithThumbnails.html
06/05/2002	01:14p	5,163 WorkingWithTropicalCycloneWarnings.html
02/13/2002	10:33a	42,329 WorkingWithUpperAirReports.html
	117 File(s)	1,428,840 bytes

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#### Directory of C:\jmvmwin\JMV-WebHelp\Images

12/19/2002	03:19p	<DIR> .
12/19/2002	03:19p	<DIR> ..
08/17/2000	03:41p	40,754 AddName.gif
06/18/2002	12:29p	8,395 AirmetDisplayMenu.gif
06/18/2002	12:34p	3,559 AirmetDisplayMenuSmall.gif
06/19/2002	02:38p	13,561 AirmetListDialog.gif
01/21/2002	04:06p	5,206 AirmetParametersDialog.gif
01/21/2002	01:23p	20,312 AirmetsDisplayed.gif
04/09/1999	12:00a	367 ALERT.GIF
01/31/2002	02:29p	24,327 All_Metar_Reports.gif
01/31/2002	04:39p	30,776 All_TAF_Forecasts.gif
01/31/2002	04:39p	30,776 AllTAFSView.gif
04/09/1999	12:00a	3,079 AnimationControls.gif
04/09/1999	12:00a	12,334 AnnotationSelectionsDialog.gif
08/16/2000	09:23a	34,964 AreaSelectionWithRemotes.gif
11/11/2002	11:59a	4,968 AutoWarnenSetupDialog.gif
04/11/2001	05:50p	1,047 BitmapIcon.gif
04/12/2001	10:55a	1,055 BitmapIconTitle.gif
04/11/2001	05:54p	46,749 BitMapToolPropertiesDialog.gif
05/06/1999	12:00a	3,357 BoldLineSettingsDialog.gif
04/09/1999	12:00a	18,968 ChooseAreaDialog.gif
08/16/2000	09:04a	4,200 ChooseAreaTypeDialog.gif
03/20/2000	08:11a	51,314 ChooseProducts.gif
05/29/2001	04:19p	49,995 ChooseProducts_new.gif
04/09/1999	12:00a	1,582 ChooseProductsIcon.gif

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10/28/2002	03:34p	31,525 ColorFillSettingsAll.gif
10/28/2002	04:48p	33,338 ColorFillSettingsDialog.gif
04/09/1999	12:00a	1,204 ColorsIcon.gif
06/19/2002	02:30p	14,080 Copy of AirmetListDialog.gif
04/09/1999	12:00a	5,450 CPADialog.gif
08/01/2001	04:06p	9,931 Cross-Section.gif
08/01/2001	04:06p	9,931 CrossSectionWindow.gif
06/17/2002	02:53p	13,434 CurrentNamesListDialog.gif
06/17/2002	02:55p	12,988 CurrentNamesListDialog_Add.gif
01/18/2000	12:30p	322 DataButton.gif
01/18/2000	12:33p	2,124 DataMarker.gif
06/01/2001	12:26p	8,182 DataThinningDialog.gif
10/03/2001	01:43p	1,041 DateBarIcon.gif
10/03/2001	01:46p	1,060 DateClockIcon.gif
10/03/2001	01:44p	1,041 DateTicsIcon.gif
10/03/2001	01:44p	1,038 DayBarIcon.gif
10/03/2001	01:46p	1,048 DayClockIcon.gif
10/03/2001	01:45p	1,030 DayTicsIcon.gif
04/09/1999	12:00a	8,922 DepthProfileCursorAndReadout.gif
08/01/2001	12:46p	8,393 DepthProfileList.gif
08/01/2001	12:44p	9,486 DepthProfileWindow.gif
08/16/2000	08:54a	5,641 DirectoryPermissionsDialog.gif
04/09/1999	12:00a	23,725 DisplayAllMETARReports.gif
01/29/2002	03:50p	3,162 DisplayMenuPirepFlyout.gif
04/11/2001	03:54p	1,100 DrawingModeBox.gif
03/22/2000	11:16a	4,114 DrawingOptionsDialog.gif
10/26/2000	01:44p	3,137 DuplicateArea.gif
01/13/2000	10:53a	34,387 EditSynopticDialog.gif
04/09/1999	12:00a	1,116 ExitIcon.gif
02/01/2002	12:06p	5,372 ExportDataLayerFile.gif
08/16/2000	12:52p	5,269 FindGeographyDirectoryDialog.gif
08/16/2000	08:48a	6,383 FolderSharingDialog.gif
04/09/1999	12:00a	1,106 FullViewIcon.gif
04/09/1999	12:00a	274 Funnel.gif
04/09/1999	12:00a	832 GE.gif
03/27/2000	12:32p	39,669 GeneralColorSettingsDialog.gif
04/09/1999	12:00a	1,186 GeographicNamesIcon.gif
08/16/2000	02:53p	87,212 GeoImageBackground.gif
04/09/1999	12:00a	35,486 GribProductSelectionsDialog.gif
03/14/2001	04:09p	1,045 HazeButton.gif
02/13/2002	09:49a	5,761 HWDLineAndSymbolScaleEditorDialog.gif
08/08/2000	02:10p	28,376 image_choose_products.gif
04/09/1999	12:00a	1,460 Image10.gif
04/09/1999	12:00a	991 Image144.gif
04/09/1999	12:00a	1,070 Image145.gif
04/09/1999	12:00a	1,045 Image146.gif
04/09/1999	12:00a	1,104 Image147.gif
04/09/1999	12:00a	1,069 Image148.gif
04/09/1999	12:00a	1,074 Image149.gif
04/09/1999	12:00a	989 Image150.gif
04/09/1999	12:00a	983 Image151.gif
04/09/1999	12:00a	1,117 Image152.gif
04/09/1999	12:00a	1,161 Image153.gif
04/09/1999	12:00a	1,018 Image154.gif
04/09/1999	12:00a	1,134 Image155.gif
04/09/1999	12:00a	1,135 Image156.gif
04/09/1999	12:00a	1,136 Image157.gif
04/09/1999	12:00a	1,152 Image158.gif
04/09/1999	12:00a	1,164 Image159.gif
04/09/1999	12:00a	1,097 Image160.gif

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04/09/1999	12:00a	1,023	Image161.gif
04/09/1999	12:00a	1,157	Image162.gif
04/09/1999	12:00a	1,045	Image163.gif
04/09/1999	12:00a	1,172	Image164.gif
04/09/1999	12:00a	1,122	Image165.gif
04/09/1999	12:00a	1,177	Image166.gif
04/09/1999	12:00a	1,149	Image167.gif
04/09/1999	12:00a	1,154	Image168.gif
04/09/1999	12:00a	1,169	Image169.gif
04/09/1999	12:00a	1,044	Image170.gif
04/09/1999	12:00a	1,035	Image171.gif
04/09/1999	12:00a	1,164	Image172.gif
04/09/1999	12:00a	1,171	Image173.gif
04/09/1999	12:00a	1,165	Image174.gif
04/09/1999	12:00a	1,135	Image175.gif
04/09/1999	12:00a	1,131	Image176.gif
04/09/1999	12:00a	1,175	Image177.gif
04/09/1999	12:00a	1,166	Image178.gif
04/09/1999	12:00a	1,182	Image179.gif
04/09/1999	12:00a	1,181	Image180.gif
04/09/1999	12:00a	1,187	Image181.gif
04/09/1999	12:00a	1,182	Image182.gif
04/09/1999	12:00a	1,119	Image183.gif
04/09/1999	12:00a	1,145	Image184.gif
04/09/1999	12:00a	1,171	Image185.gif
04/09/1999	12:00a	1,105	Image186.gif
04/09/1999	12:00a	1,095	Image187.gif
04/09/1999	12:00a	1,121	Image188.gif
04/09/1999	12:00a	1,081	Image189.gif
04/09/1999	12:00a	1,147	Image190.gif
04/09/1999	12:00a	1,100	Image191.gif
04/09/1999	12:00a	1,036	Image192.gif
04/09/1999	12:00a	1,152	Image193.gif
04/09/1999	12:00a	1,150	Image194.gif
04/09/1999	12:00a	1,144	Image195.gif
03/14/2001	03:18p	1,091	Image196.gif
04/09/1999	12:00a	1,049	Image197.gif
04/09/1999	12:00a	1,095	Image198.gif
04/09/1999	12:00a	1,015	Image199.gif
04/09/1999	12:00a	1,065	Image200.gif
04/09/1999	12:00a	1,058	Image201.gif
04/09/1999	12:00a	1,021	Image202.gif
04/09/1999	12:00a	1,054	Image203.gif
08/01/2001	01:20p	1,006	Image204.gif
04/09/1999	12:00a	1,094	Image205.gif
04/09/1999	12:00a	1,048	Image206.gif
04/09/1999	12:00a	1,046	Image207.gif
04/09/1999	12:00a	1,041	Image208.gif
04/09/1999	12:00a	1,042	Image209.gif
04/09/1999	12:00a	1,043	Image210.gif
04/09/1999	12:00a	1,045	Image211.gif
04/09/1999	12:00a	1,147	Image212.gif
04/09/1999	12:00a	1,144	Image213.gif
04/09/1999	12:00a	1,028	Image214.gif
04/09/1999	12:00a	1,043	Image215.gif
04/09/1999	12:00a	1,053	Image216.gif
04/09/1999	12:00a	1,054	Image217.gif
04/09/1999	12:00a	1,055	Image218.gif
04/09/1999	12:00a	1,069	Image219.gif
04/09/1999	12:00a	1,080	Image220.gif

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04/09/1999	12:00a	1,082	Image221.gif
04/09/1999	12:00a	1,043	Image222.gif
04/09/1999	12:00a	1,040	Image223.gif
04/09/1999	12:00a	1,142	Image224.gif
04/09/1999	12:00a	1,142	Image225.gif
04/09/1999	12:00a	1,039	Image226.gif
04/09/1999	12:00a	1,049	Image227.gif
04/09/1999	12:00a	1,124	Image228.gif
04/09/1999	12:00a	1,132	Image229.gif
04/09/1999	12:00a	1,159	Image230.gif
04/09/1999	12:00a	1,132	Image231.gif
04/09/1999	12:00a	1,137	Image232.gif
04/09/1999	12:00a	1,102	Image233.gif
04/09/1999	12:00a	1,111	Image234.gif
04/09/1999	12:00a	1,146	Image235.gif
04/09/1999	12:00a	987	Image236.gif
04/09/1999	12:00a	990	Image237.gif
04/09/1999	12:00a	1,000	Image238.gif
04/09/1999	12:00a	1,161	Image239.gif
04/09/1999	12:00a	1,139	Image240.gif
04/09/1999	12:00a	1,112	Image241.gif
04/09/1999	12:00a	1,114	Image242.gif
04/09/1999	12:00a	1,150	Image243.gif
04/09/1999	12:00a	1,106	Image244.gif
04/09/1999	12:00a	1,107	Image245.gif
04/09/1999	12:00a	1,120	Image246.gif
04/09/1999	12:00a	1,117	Image247.gif
04/09/1999	12:00a	1,156	Image248.gif
04/09/1999	12:00a	1,142	Image249.gif
04/11/2001	02:19p	1,066	Image250.gif
04/11/2001	02:37p	1,073	Image251.gif
04/11/2001	02:52p	1,051	Image252.gif
04/09/1999	12:00a	4,559	Image267.gif
04/09/1999	12:00a	2,056	Image288.gif
04/09/1999	12:00a	2,355	Image292.gif
04/09/1999	12:00a	1,343	Image293.gif
04/09/1999	12:00a	6,821	Image295.gif
04/09/1999	12:00a	4,766	Image296.gif
11/18/2002	03:45p	9,284	import_img.gif
04/09/1999	12:00a	22,640	JMVDialogBoxFeatures.gif
08/28/2001	02:22p	5,070	JMVMainScreen.gif
04/09/1999	12:00a	71,851	JMVMainWindow.gif
04/09/1999	12:00a	23,100	JMVMainWindowFeatures.gif
05/24/2001	01:30p	9,937	JMVPProcessDataWindow.gif
04/09/1999	12:00a	4,384	LatitudeLongitudeDialog.gif
04/09/1999	12:00a	2,058	LatLonDots.gif
06/01/2001	12:18p	6,550	LatLonGridSetupDialog.gif
04/09/1999	12:00a	1,107	LatLonOptions.gif
04/09/1999	12:00a	828	LE.gif
04/09/1999	12:00a	1,104	LegendIcon.gif
04/09/1999	12:00a	4,106	LoopSetupDialog.gif
03/15/2001	05:57p	1,146	MapDisplayIcon.gif
04/09/1999	12:00a	61,284	MapDisplayOfTAFS.gif
04/09/1999	12:00a	49,173	MapDisplayOfUARs.gif
08/16/2000	08:58a	8,523	MapNetworkDriveDialog.gif
04/14/2001	03:44p	42,097	MctThumbnailProductList.gif
04/09/1999	12:00a	8,349	MessageBuildDialog.gif
08/17/2000	01:12p	41,826	Metar_List.gif
03/21/2000	02:19p	9,257	METARBrowseBasic.gif
03/21/2000	02:28p	10,491	METARBrowseExpanded.gif

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04/09/1999	12:00a	30,405	METARGroupConfigurationDialog.gif
04/09/1999	12:00a	49,333	METARMapDisplay.gif
06/10/2002	04:53p	17,343	METARSettingsDialog.gif
08/17/2000	12:23p	20,422	METARStationReportDialog.gif
08/17/2000	12:32p	22,552	METAR-TAFStationDisplay.gif
04/01/1999	12:00a	46,165	METCASTWindow.gif
08/17/2000	12:25p	42,120	Multi-stationMETAR-TAFDisplay.gif
04/09/1999	12:00a	2,938	NameColorSetDialog.gif
05/23/2001	04:09p	84,900	NetscapeEditTypeDatDialog.gif
05/21/2001	04:34p	98,666	NetscapeEditTypeDialog.gif
05/21/2001	04:58p	5,044	NetscapeNewTypeDialog.gif
05/30/2001	02:55p	17,874	NetscapePreferencesDialog.gif
03/22/2000	09:48a	4,547	ObjectEditor.gif
10/10/2001	04:30p	13,500	OPARSFlightPlansDialog.gif
10/10/2001	04:17p	5,692	OPARSFlightPlanSettings.gif
04/09/1999	12:00a	1,179	OPARSTrackIcon.gif
01/29/2002	03:47p	10,725	PirepDisplayExample.gif
02/11/2002	02:44p	30,544	PirepObservationListDialog.gif
02/11/2002	02:50p	14,905	PirepParametersDialog.gif
05/03/2002	12:07p	5,808	PirepSetAgeRestrictionDialog.gif
10/11/2001	10:31a	4,140	PrintCaptionSettingsDialog.gif
04/09/1999	12:00a	1,094	PrintIcon.gif
01/29/2001	04:29p	1,089	ProductdisplayIcon.gif
04/09/2002	10:53a	19,015	ProductSlideShowDialog.gif
04/09/1999	12:00a	19,589	ProductTimeSelectionDialog.gif
11/18/2002	01:10p	6,789	PublishDrawingToMetcastChannelDialog1.gif
11/18/2002	01:09p	5,965	PublishDrawingToMetcastChannelDialog2.gif
11/11/2002	04:12p	7,708	PublishShipRouteToMETCASTChannelDialog1.gif
11/11/2002	04:37p	10,987	PublishShipRouteToMETCASTChannelDialog2.gif
04/08/2002	12:39p	3,793	PublishSlideShowConfigDialog.gif
04/09/1999	12:00a	1,090	RangeBearingIcon.gif
08/16/2000	09:17a	5,426	RemoteAreaPathSelectionDialog.gif
08/16/2000	09:15a	15,910	RemoteAreaSelectionDialog.gif
08/16/2000	09:20a	26,670	RemoteAreaSelections.gif
08/16/2000	09:47a	25,384	RemoteRetrieverMonitorIPEntry.gif
08/16/2000	09:44a	26,510	RemoteRetrieverMonitorStartup.gif
10/26/2000	01:39p	3,060	RenameArea.gif
04/01/1999	12:00a	41,995	RetrieverMonitor.gif
04/01/1999	12:00a	70,054	RetrieverMonitorDetails.gif
04/06/1999	05:54a	33,551	satelliteenhancementsdialog.gif
04/09/1999	12:00a	25,272	SatelliteSlideShowSelectionDialog.gif
03/21/2000	09:31a	5,240	SaveDrawingDialog.gif
04/09/1999	12:00a	22,654	SelectAreaDialog.gif
10/26/2000	02:48p	6,594	SelectAreaDialogWithRemoteAreas.gif
06/15/1999	05:05p	5,301	SelectBrowseParameterDialog.gif
07/21/2000	03:46p	5,529	SelectRoute.gif
04/09/1999	12:00a	64,201	SelectTropicalsToDisplayDialog.gif
08/18/2000	10:55a	38,933	SetAlertsDialog.gif
01/28/2002	03:16p	5,636	SetObservationAgeRestrictionDialogAirmet.gif
05/02/2002	03:30p	5,279	SetObservationAgeRestrictionsDialog.gif
06/01/2001	05:08p	6,191	SetShipRouteAlertsDialog.gif
11/12/2002	04:25p	8,225	SetShipRouteAlertsDialog2.gif
05/02/2002	11:05a	4,603	ShapeFilesDialog.gif
10/26/2000	02:14p	4,993	SharePermissionsDialog.gif
07/21/2000	04:04p	4,580	ShipRoute.gif
11/12/2002	05:31p	12,657	ShipRouteAlertsTextMessage.gif
06/04/2002	10:26a	23,055	ShipRouteEditorDialog.gif
05/23/2002	01:05p	10,946	ShipRouteSettingsDialog.gif
11/23/2002	02:55p	12,371	ShipTracksDialog.gif
04/09/1999	12:00a	1,090	ShipTracksIcon.gif

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02/11/2002	02:54p	14,409	SigmetAirmetConfigDialog.gif
04/09/1999	12:00a	29,345	SIGMETConfigurationDialog.gif
02/11/2002	03:39p	14,885	SIGMETReportSelectionDialog.gif
04/09/1999	12:00a	1,102	SigMetsIcon.gif
04/09/1999	12:00a	20,598	SkewTChooseStation.gif
04/09/1999	12:00a	9,111	SkewTColorPicker.gif
04/09/1999	12:00a	112,093	SkewTDisplay.gif
04/09/1999	12:00a	15,837	SkewTLogPList.gif
04/09/1999	12:00a	3,429	SkewTToolbox1.gif
04/09/1999	12:00a	4,106	SkewTToolbox2.gif
04/09/1999	12:00a	3,439	SkewTToolbox3.gif
04/09/1999	12:00a	3,838	SkewTToolbox4.gif
04/09/1999	12:00a	73,114	SkewTWindowFeatures.gif
06/04/2002	04:13p	25,091	SlideShowAutoUpdateDialog.gif
04/01/2002	04:00p	2,582	SlideShowAutoUpdateStatusBar.gif
04/09/2002	10:53a	19,015	SlideShowSelectionDialog.gif
03/14/2001	04:08p	1,051	SmokeButton.gif
06/15/2001	09:14a	3,079	SolarisArtifactDialog.gif
04/09/1999	12:00a	40,432	StationDisplayEditorDialog.gif
05/29/2001	04:02p	6,942	sunrise_sunset_config.gif
01/13/2000	10:38a	1,026	Syn-button.gif
03/21/2000	04:15p	8,385	TAFBrowseBasic.gif
03/28/2000	08:27a	15,375	TAFBrowseExpanded.gif
08/17/2000	01:34p	34,226	TAFLListView.gif
08/17/2000	12:24p	20,863	TAFStationReport.gif
04/10/2001	04:51p	47,253	TextToolPropertiesDialog.gif
05/24/2001	12:19p	8,689	ThumbnailAddNewFileType.gif
04/14/2001	03:40p	40,957	ThumbnailDatWebsite.gif
04/18/2001	01:38p	93,788	ThumbnailFolderOptions.gif
04/14/2001	04:59p	33,739	ThumbnailMctWebsite.gif
04/18/2001	03:12p	18,097	ThumbnailNewAction.gif
01/13/2000	01:08p	36,107	ToolbarEditor.gif
04/09/1999	12:00a	1,106	ToolsIcon.gif
07/28/2000	02:21p	11,627	TropicalStormDisplay.gif
11/18/2002	04:09p	9,880	TropicalStormsDialog.gif
03/22/2000	11:29a	8,807	TropicalStormSettingsDialog.gif
04/09/1999	12:00a	1,070	TropicalStormTracksIcon.gif
06/15/1999	05:04p	49,376	UAStationModelDisplay.gif
04/09/1999	12:00a	27,698	UpperAirDataEditorDialog.gif
04/09/1999	12:00a	24,226	UpperAirSoundingSelectionDialog.gif
04/09/1999	12:00a	1,460	VertLine.gif
01/31/2002	02:29p	24,327	ViewAllMETARReportsDialog.gif
01/31/2002	04:39p	30,776	ViewAllTAFReportsDialog.gif
04/09/1999	12:00a	17,138	ViewMETARListDialog.gif
04/09/1999	12:00a	18,477	ViewTAFLListDialog.gif
04/09/1999	12:00a	9,223	WarningMessageTimesDialog.gif
04/09/1999	12:00a	34,685	WarningSetupOptionsDialog.gif
04/09/1999	12:00a	5,495	WGenToolkit.gif
04/09/1999	12:00a	33,269	WindSeaWarningDialog.gif
04/09/1999	12:00a	1,023	ZoomBoxIcon.gif
04/09/1999	12:00a	1,053	ZoomInIcon.gif
04/09/1999	12:00a	1,042	ZoomOutIcon.gif
		315	File(s) 3,620,431 bytes

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Directory of C:\jmvmwin\Noddsfls

12/19/2002	03:36p	<DIR>	.
12/19/2002	03:36p	<DIR>	..
12/19/2002	02:50p	<DIR>	colorfls
12/19/2002	02:06p	<DIR>	globalhwd

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10/12/2001	03:48p	<DIR>	Icons
10/12/2001	03:48p	<DIR>	images
04/12/2002	11:55a	<DIR>	shows
10/12/2001	03:48p	<DIR>	Storms
04/15/2002	09:43a	<DIR>	terrain
10/12/2001	03:46p	<DIR>	Tracks
10/12/2001	03:46p	<DIR>	upperair
10/12/2001	03:46p	<DIR>	Warngen
10/12/2001	03:46p	<DIR>	warnings
08/29/2001	09:01p	241,664	archive.exe
04/26/2002	02:23p	2,922,892	AutoGenClient.zip
02/21/2002	01:38p	5,150	AutoGenServer.zip
09/05/2000	11:07p	2,347	bartobg.dat
06/10/1998	03:01p	1,705	bsea.lst
06/10/1998	03:02p	3,669	cgd1.lst
09/05/2000	11:07p	221,184	Chgarea.exe
11/24/1998	02:30p	4,789	coa2.lst
09/16/1998	09:52a	3,328	coa3.lst
11/10/1998	10:17a	3,459	coa7.lst
04/07/1999	08:12p	19,574	command_seal.bmp
01/09/1998	01:11p	186,656	cut0000.10d
03/05/1998	04:24p	1,647	default.dat
09/05/2000	11:07p	217,088	Delarea.exe
05/09/2002	06:59p	225,280	Duparea.exe
04/16/2002	01:44p	24,576	EditLaxFiles.exe
04/22/1999	06:31p	1,935	eof.dat
12/16/1999	10:04a	145,857	FNMOC.bak
12/16/1999	10:18a	145,859	FNMOC.xml
01/09/1998	01:20p	30,401	gin2.dep
06/10/1998	03:03p	262	gin2.lst
01/09/1998	01:20p	15,000	gins.dep
01/09/1998	01:20p	15,000	glfs.dep
06/10/1998	03:04p	786	glfs.lst
01/09/1998	01:20p	41,763	glob.dep
01/09/1998	01:20p	10,513	glob2p5.dep
11/24/1998	11:32a	1,731	global.lst
01/09/1998	01:20p	65,160	globm60.dep
01/09/1998	01:20p	41,760	globm75.dep
11/19/2002	10:56p	713	HWD.DTD
11/19/2002	10:56p	618,541	hwd2shape.exe
01/08/1998	04:58p	81	index.cut
12/03/1999	01:49a	32,712	index.wdb
06/10/1998	03:04p	919	indo.lst
06/10/1998	03:05p	2,752	iocn.lst
12/03/1999	01:49a	121,911	jmv_grib.tbl
06/10/1998	03:05p	919	kor2.lst
06/24/1998	12:53p	3,459	kora.lst
01/09/1998	01:20p	15,000	lgrn.dep
01/09/1998	01:22p	13,624	lsdat1
01/09/1998	01:22p	12,704	lsdat2
01/09/1998	01:22p	9,894	lsdat3
01/09/1998	01:22p	15,522	lsdat4
01/09/1998	01:22p	5,568	lsdat5
01/09/1998	01:22p	11,016	lsdat6
01/09/1998	01:22p	3,080	lsdat7
01/09/1998	01:22p	7,984	lsdat8
01/09/1998	01:22p	1,804	lsx1
01/09/1998	01:22p	1,804	lsx2
01/09/1998	01:22p	1,804	lsx3
01/09/1998	01:22p	1,804	lsx4

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01/09/1998	01:22p	1,804	lsx5
01/09/1998	01:22p	1,804	lsx6
01/09/1998	01:22p	1,804	lsx7
01/09/1998	01:22p	1,804	lsx8
11/19/2002	10:56p	3,731,456	Mdisplay.exe
06/10/1998	03:06p	919	meds.lst
04/22/1999	06:31p	1,737	Models.tbl
02/13/1994	05:21a	18,319	move.exe
11/19/2002	10:56p	6,576	MTOC.dtd
08/14/1998	03:03p	10,656	multisat.lst
09/02/1999	10:44p	668,696	mwdb.all
03/23/2001	06:31p	272,886	names.lst
01/09/1998	01:20p	15,000	nkur.dep
11/24/1998	02:30p	3,326	norp.lst
11/19/2002	10:56p	20,480	perl.exe
08/29/2001	09:01p	647,168	perl56.dll
07/08/1998	09:41a	376,899	plist.dat
11/19/2002	10:56p	540,672	procdata.exe
08/29/2001	09:01p	315,392	restore.exe
05/09/2002	06:59p	385,024	selarea.exe
03/21/2001	10:46p	40,960	ServiceManager.exe
05/09/2002	06:59p	599	shapecolors.dat
11/19/2002	10:56p	888	SHIPDTD
11/19/2002	10:56p	426,030	ship2shape.exe
11/19/2002	10:56p	618,496	skewt.exe
01/07/1999	02:08p	280,064	Station.exe
06/10/1998	02:50p	3,407	swar.lst
06/10/1998	03:08p	919	swps.lst
12/03/1999	01:50a	190,464	tar.exe
07/17/1998	12:44p	21	template.lst
05/09/2002	06:59p	221,184	Timezone.exe
04/28/1999	04:13p	213	toolbar.dat
06/24/1998	12:53p	5,057	unit.lst
11/19/2002	10:56p	73,728	updshow.exe
11/19/2002	10:56p	29	VERSION
07/12/1998	11:43a	37,136	watl.dep
06/10/1998	03:08p	655	watl.lst
01/09/1998	01:20p	40,401	wpa2.dep
06/10/1998	03:09p	655	wpa2.lst
11/19/2002	10:56p	263,155	w-shove.exe
11/19/2002	10:56p	618,539	xml2shape.exe
12/09/1998	03:12p	4,484	xportcat.txt
		93	File(s) 15,334,156 bytes

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#### Directory of C:\jmvwini\Noddsfls\colorfls

12/19/2002	02:50p	<DIR>	.
12/19/2002	02:50p	<DIR>	..
11/19/2002	10:56p	314	default_1000MB_RELATIVE_HUMIDITY.printer
11/19/2002	10:56p	314	default_1000MB_RELATIVE_HUMIDITY.screen
11/19/2002	10:56p	260	default_1000MB_TOTAL_CLOUD_COVER.printer
11/19/2002	10:56p	260	default_1000MB_TOTAL_CLOUD_COVER.screen
11/19/2002	10:56p	256	default_100MB_TOTAL_CLOUD_COVER.printer
11/19/2002	10:56p	256	default_100MB_TOTAL_CLOUD_COVER.screen
11/19/2002	10:56p	390	default_1013MB_DEW_POINT_DEPRESSION.printer
11/19/2002	10:56p	390	default_1013MB_DEW_POINT_DEPRESSION.screen
07/29/1999	09:36a	282	default_1013MB_WIND_ISOTACHS.printer
07/29/1999	09:36a	554	default_1013MB_WIND_ISOTACHS.screen
11/19/2002	10:56p	607	default_12HR_PRECIPITATION.printer
11/19/2002	10:56p	607	default_12HR_PRECIPITATION.screen

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11/19/2002	10:56p	257 default_150MB_TOTAL_CLOUD_COVER.printer
11/19/2002	10:56p	257 default_150MB_TOTAL_CLOUD_COVER.screen
08/12/1999	08:32a	282 default_19_METERS_WIND_ISOTACHS.printer
08/12/1999	08:32a	1,040 default_19_METERS_WIND_ISOTACHS.screen
11/19/2002	10:56p	314 default_2_METERS_RELATIVE_HUMIDITY.printer
11/19/2002	10:56p	314 default_2_METERS_RELATIVE_HUMIDITY.screen
11/19/2002	10:56p	728 default_2_METERS_VISIBILITY.printer
11/19/2002	10:56p	728 default_2_METERS_VISIBILITY.screen
11/19/2002	10:56p	391 default_200MB_CLEAR_AIR_TURBULANCE.printer
11/19/2002	10:56p	391 default_200MB_CLEAR_AIR_TURBULANCE.screen
11/19/2002	10:56p	421 default_200MB_DIVERGENCE.printer
11/19/2002	10:56p	421 default_200MB_DIVERGENCE.screen
11/19/2002	10:56p	473 default_200MB_PRESSURE_VERTICAL_VELOCITY.printer
11/19/2002	10:56p	473 default_200MB_PRESSURE_VERTICAL_VELOCITY.screen
11/19/2002	10:56p	421 default_200MB_RELATIVE_HUMIDITY.printer
11/19/2002	10:56p	421 default_200MB_RELATIVE_HUMIDITY.screen
11/19/2002	10:56p	260 default_200MB_TOTAL_CLOUD_COVER.printer
11/19/2002	10:56p	260 default_200MB_TOTAL_CLOUD_COVER.screen
11/19/2002	10:56p	421 default_250MB_DIVERGENCE.printer
11/19/2002	10:56p	421 default_250MB_DIVERGENCE.screen
11/19/2002	10:56p	473 default_250MB_PRESSURE_VERTICAL_VELOCITY.printer
11/19/2002	10:56p	473 default_250MB_PRESSURE_VERTICAL_VELOCITY.screen
11/19/2002	10:56p	421 default_250MB_RELATIVE_HUMIDITY.printer
11/19/2002	10:56p	421 default_250MB_RELATIVE_HUMIDITY.screen
11/19/2002	10:56p	260 default_250MB_TOTAL_CLOUD_COVER.printer
11/19/2002	10:56p	260 default_250MB_TOTAL_CLOUD_COVER.screen
11/19/2002	10:56p	391 default_300MB_CLEAR_AIR_TURBULANCE.printer
11/19/2002	10:56p	391 default_300MB_CLEAR_AIR_TURBULANCE.screen
11/19/2002	10:56p	421 default_300MB_DIVERGENCE.printer
11/19/2002	10:56p	421 default_300MB_DIVERGENCE.screen
11/19/2002	10:56p	473 default_300MB_PRESSURE_VERTICAL_VELOCITY.printer
11/19/2002	10:56p	473 default_300MB_PRESSURE_VERTICAL_VELOCITY.screen
11/19/2002	10:56p	421 default_300MB_RELATIVE_HUMIDITY.printer
11/19/2002	10:56p	421 default_300MB_RELATIVE_HUMIDITY.screen
11/19/2002	10:56p	260 default_300MB_TOTAL_CLOUD_COVER.printer
11/19/2002	10:56p	260 default_300MB_TOTAL_CLOUD_COVER.screen
08/23/1999	01:41p	283 default_300MB_WIND_ISOTACHS.printer
08/23/1999	01:41p	503 default_300MB_WIND_ISOTACHS.screen
11/19/2002	10:56p	287 default_400MB_CONVective_CLOUD_COVER.printer
11/19/2002	10:56p	287 default_400MB_CONVective_CLOUD_COVER.screen
11/19/2002	10:56p	421 default_400MB_DIVERGENCE.printer
11/19/2002	10:56p	421 default_400MB_DIVERGENCE.screen
11/19/2002	10:56p	473 default_400MB_PRESSURE_VERTICAL_VELOCITY.printer
11/19/2002	10:56p	473 default_400MB_PRESSURE_VERTICAL_VELOCITY.screen
11/19/2002	10:56p	421 default_400MB_RELATIVE_HUMIDITY.printer
11/19/2002	10:56p	421 default_400MB_RELATIVE_HUMIDITY.screen
11/19/2002	10:56p	260 default_400MB_TOTAL_CLOUD_COVER.printer
11/19/2002	10:56p	260 default_400MB_TOTAL_CLOUD_COVER.screen
11/19/2002	10:56p	287 default_500MB_CONVective_CLOUD_COVER.printer
11/19/2002	10:56p	287 default_500MB_CONVective_CLOUD_COVER.screen
11/19/2002	10:56p	421 default_500MB_DIVERGENCE.printer
11/19/2002	10:56p	421 default_500MB_DIVERGENCE.screen
11/19/2002	10:56p	473 default_500MB_PRESSURE_VERTICAL_VELOCITY.printer
11/19/2002	10:56p	473 default_500MB_PRESSURE_VERTICAL_VELOCITY.screen
11/19/2002	10:56p	421 default_500MB_RELATIVE_HUMIDITY.printer
11/19/2002	10:56p	421 default_500MB_RELATIVE_HUMIDITY.screen
11/19/2002	10:56p	611 default_500MB_RELATIVE_VORTICITY.printer
11/19/2002	10:56p	611 default_500MB_RELATIVE_VORTICITY.screen
11/19/2002	10:56p	260 default_500MB_TOTAL_CLOUD_COVER.printer
11/19/2002	10:56p	260 default_500MB_TOTAL_CLOUD_COVER.screen

11/19/2002	10:56p	501 default_500MB_VORTICITY.printer
11/19/2002	10:56p	501 default_500MB_VORTICITY.screen
11/19/2002	10:56p	287 default_700MB_CONVective_CLOUD_COVER.printer
11/19/2002	10:56p	287 default_700MB_CONVective_CLOUD_COVER.screen
11/19/2002	10:56p	390 default_700MB_DEW_POINT_DEPRESSION.printer
11/19/2002	10:56p	390 default_700MB_DEW_POINT_DEPRESSION.screen
11/19/2002	10:56p	473 default_700MB_PRESSURE_VERTICAL_VELOCITY.printer
11/19/2002	10:56p	473 default_700MB_PRESSURE_VERTICAL_VELOCITY.screen
11/19/2002	10:56p	421 default_700MB_RELATIVE_HUMIDITY.printer
11/19/2002	10:56p	421 default_700MB_RELATIVE_HUMIDITY.screen
11/19/2002	10:56p	530 default_700MB_RELATIVE_VORTICITY.printer
11/19/2002	10:56p	530 default_700MB_RELATIVE_VORTICITY.screen
11/19/2002	10:56p	260 default_700MB_TOTAL_CLOUD_COVER.printer
11/19/2002	10:56p	260 default_700MB_TOTAL_CLOUD_COVER.screen
11/19/2002	10:56p	287 default_800MB_CONVective_CLOUD_COVER.printer
11/19/2002	10:56p	287 default_800MB_CONVective_CLOUD_COVER.screen
11/19/2002	10:56p	421 default_800MB_RELATIVE_HUMIDITY.printer
11/19/2002	10:56p	421 default_800MB_RELATIVE_HUMIDITY.screen
11/19/2002	10:56p	260 default_800MB_TOTAL_CLOUD_COVER.printer
11/19/2002	10:56p	260 default_800MB_TOTAL_CLOUD_COVER.screen
11/19/2002	10:56p	287 default_850MB_CONVective_CLOUD_COVER.printer
11/19/2002	10:56p	287 default_850MB_CONVective_CLOUD_COVER.screen
11/19/2002	10:56p	390 default_850MB_DEW_POINT_DEPRESSION.printer
11/19/2002	10:56p	390 default_850MB_DEW_POINT_DEPRESSION.screen
11/19/2002	10:56p	421 default_850MB_DIVERGENCE.printer
11/19/2002	10:56p	421 default_850MB_DIVERGENCE.screen
11/19/2002	10:56p	473 default_850MB_PRESSURE_VERTICAL_VELOCITY.printer
11/19/2002	10:56p	473 default_850MB_PRESSURE_VERTICAL_VELOCITY.screen
11/19/2002	10:56p	421 default_850MB_RELATIVE_HUMIDITY.printer
11/19/2002	10:56p	421 default_850MB_RELATIVE_HUMIDITY.screen
11/19/2002	10:56p	530 default_850MB_RELATIVE_VORTICITY.printer
11/19/2002	10:56p	530 default_850MB_RELATIVE_VORTICITY.screen
11/19/2002	10:56p	260 default_850MB_TOTAL_CLOUD_COVER.printer
11/19/2002	10:56p	260 default_850MB_TOTAL_CLOUD_COVER.screen
11/19/2002	10:56p	287 default_900MB_CONVective_CLOUD_COVER.printer
11/19/2002	10:56p	287 default_900MB_CONVective_CLOUD_COVER.screen
11/19/2002	10:56p	421 default_900MB_RELATIVE_HUMIDITY.printer
11/19/2002	10:56p	421 default_900MB_RELATIVE_HUMIDITY.screen
11/19/2002	10:56p	260 default_900MB_TOTAL_CLOUD_COVER.printer
11/19/2002	10:56p	260 default_900MB_TOTAL_CLOUD_COVER.screen
11/19/2002	10:56p	287 default_925MB_CONVective_CLOUD_COVER.printer
11/19/2002	10:56p	287 default_925MB_CONVective_CLOUD_COVER.screen
11/19/2002	10:56p	473 default_925MB_PRESSURE_VERTICAL_VELOCITY.printer
11/19/2002	10:56p	473 default_925MB_PRESSURE_VERTICAL_VELOCITY.screen
11/19/2002	10:56p	421 default_925MB_RELATIVE_HUMIDITY.printer
11/19/2002	10:56p	421 default_925MB_RELATIVE_HUMIDITY.screen
11/19/2002	10:56p	260 default_925MB_TOTAL_CLOUD_COVER.printer
11/19/2002	10:56p	260 default_925MB_TOTAL_CLOUD_COVER.screen
11/19/2002	10:56p	287 default_950MB_CONVective_CLOUD_COVER.printer
11/19/2002	10:56p	287 default_950MB_CONVective_CLOUD_COVER.screen
11/19/2002	10:56p	421 default_950MB_RELATIVE_HUMIDITY.printer
11/19/2002	10:56p	421 default_950MB_RELATIVE_HUMIDITY.screen
11/19/2002	10:56p	260 default_950MB_TOTAL_CLOUD_COVER.printer
11/19/2002	10:56p	260 default_950MB_TOTAL_CLOUD_COVER.screen
11/19/2002	10:56p	421 default_975MB_RELATIVE_HUMIDITY.printer
11/19/2002	10:56p	421 default_975MB_RELATIVE_HUMIDITY.screen
08/23/1999	12:12p	253 default_BRIGHTNESS_TEMPERATURE.printer
08/23/1999	12:12p	253 default_BRIGHTNESS_TEMPERATURE.screen
11/19/2002	10:56p	390 default_DEW_POINT_DEPRESSION.printer
11/19/2002	10:56p	390 default_DEW_POINT_DEPRESSION.screen

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11/19/2002	10:56p	284 default_EVAPORATION.printer
11/19/2002	10:56p	284 default_EVAPORATION.screen
11/19/2002	10:56p	287 default_HIGH_CLOUD_COVER.printer
11/19/2002	10:56p	287 default_HIGH_CLOUD_COVER.screen
08/16/1999	07:18a	282 default_ICE_CONCENTRATION.printer
08/16/1999	07:18a	770 default_ICE_CONCENTRATION.screen
11/19/2002	10:56p	420 default_ICE_COVERAGE.printer
11/19/2002	10:56p	420 default_ICE_COVERAGE.screen
11/19/2002	10:56p	287 default_LOW_CLOUD_COVER.printer
11/19/2002	10:56p	287 default_LOW_CLOUD_COVER.screen
11/19/2002	10:56p	287 default_MIDDLE_CLOUD_COVER.printer
11/19/2002	10:56p	287 default_MIDDLE_CLOUD_COVER.screen
11/19/2002	10:56p	715 default_PEAK_WAVE_PERIOD.printer
11/19/2002	10:56p	715 default_PEAK_WAVE_PERIOD.screen
05/09/2002	06:59p	551 default_PRECIPITATION_RATE.printer
05/09/2002	06:59p	551 default_PRECIPITATION_RATE.screen
11/19/2002	10:56p	367 default_PRECIPITATION_TYPE.printer
11/19/2002	10:56p	367 default_PRECIPITATION_TYPE.screen
08/12/1999	06:49a	281 default_SEA_HEIGHT.printer
08/12/1999	06:49a	633 default_SEA_HEIGHT.screen
08/11/1999	02:49p	282 default_SIGNIFICANT_WAVE_HEIGHT.printer
08/11/1999	02:49p	634 default_SIGNIFICANT_WAVE_HEIGHT.screen
08/23/1999	07:09a	285 default_SURFACE_TEMPERATURE.printer
08/23/1999	07:09a	664 default_SURFACE_TEMPERATURE.screen
08/10/1999	08:53a	282 default_SURFACE_WIND_ISOTACHS.printer
08/10/1999	08:53a	1,040 default_SURFACE_WIND_ISOTACHS.screen
08/12/1999	07:10a	281 default_SWELL_HEIGHT.printer
08/12/1999	07:10a	633 default_SWELL_HEIGHT.screen
05/09/2002	06:59p	312 default_TOTAL_CLOUD_COVER.printer
05/09/2002	06:59p	312 default_TOTAL_CLOUD_COVER.screen
06/15/1998	11:52a	3,778 DPRINTER.A06
07/13/1998	09:55a	557 DPRINTER.A07
07/13/1998	07:40a	501 DPRINTER.A27
07/13/1998	09:57a	392 DPRINTER.A51
05/18/1998	03:26p	770 DPRINTER.A62
06/08/1998	03:27p	392 DPRINTER.A90
07/13/1998	10:03a	582 DPRINTER.ACI
10/01/1997	08:48a	213 DPRINTER.ASA
04/22/1997	01:05p	265 DPRINTER.B0F
07/13/1998	10:03a	582 DPRINTER.B10
07/13/1998	10:10a	498 DPRINTER.B45
09/30/1997	10:00a	692 DPRINTER.B46
07/13/1998	10:21a	552 DPRINTER.B53
09/30/1997	10:16a	508 DPRINTER.B54
07/13/1998	10:22a	253 DPRINTER.B58
07/13/1998	10:26a	444 DPRINTER.B65
09/30/1997	12:29p	395 DPRINTER.B66
09/30/1997	12:36p	434 DPRINTER.BSA
12/08/1999	03:50p	943 dprinter.bth
04/22/1997	01:05p	598 DPRINTER.C00
07/13/1998	12:19p	554 DPRINTER.C10
07/13/1998	07:46a	504 DPRINTER.C23
07/13/1998	10:34a	338 DPRINTER.C34
09/30/1997	12:40p	397 DPRINTER.CSA
04/22/1997	01:05p	598 DPRINTER.D00
07/13/1998	12:29p	582 DPRINTER.D10
07/13/1998	07:53a	504 DPRINTER.D23
07/13/1998	10:36a	257 DPRINTER.D34
09/14/1998	10:46a	662 Dprinter.df
04/22/1997	01:05p	524 DPRINTER.E00

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07/13/1998	12:38p	666	DPRINTER.E10
07/13/1998	07:55a	450	DPRINTER.E23
07/13/1998	10:37a	257	DPRINTER.E34
09/30/1997	12:48p	441	DPRINTER.ESA
10/23/1997	07:28a	178	DPRINTER.F00
07/13/1998	12:44p	665	DPRINTER.F10
07/13/1998	07:59a	992	DPRINTER.F23
06/25/1998	10:10a	553	DPRINTER.F8B
04/22/1997	01:05p	598	DPRINTER.G00
07/13/1998	12:49p	586	DPRINTER.G10
07/13/1998	09:41a	558	DPRINTER.G23
09/30/1997	12:55p	394	DPRINTER.GSA
04/22/1997	01:05p	487	DPRINTER.H00
07/13/1998	12:53p	612	DPRINTER.H10
07/13/1998	09:42a	558	DPRINTER.H23
04/16/1997	02:29p	80	DPRINTER.HSA
04/22/1997	01:05p	598	DPRINTER.I00
07/13/1998	01:31p	668	DPRINTER.I10
07/13/1998	09:52a	450	DPRINTER.I23
04/22/1997	01:05p	265	DPRINTER.ISA
04/22/1997	01:05p	117	DPRINTER.JSA
04/22/1997	01:05p	117	DPRINTER.KSA
04/22/1997	01:05p	228	DPRINTER.OSA
09/30/1997	02:01p	470	DPRINTER.PSA
04/22/1997	01:05p	487	DPRINTER.R00
07/13/1998	12:26p	555	DPRINTER.R10
07/13/1998	09:53a	450	DPRINTER.R23
07/13/1998	10:35a	257	DPRINTER.R34
09/30/1997	12:42p	511	DPRINTER.R70
04/22/1997	01:05p	413	DPRINTER.T00
07/13/1998	12:56p	668	DPRINTER.T10
07/13/1998	09:53a	504	DPRINTER.T23
12/03/1999	01:49a	527	dprinter.ta
09/14/1998	10:10a	612	Dprinter.tb
03/11/1998	01:36p	368	DPRINTER.TER
05/09/2002	06:59p	400	Dprinter.top
09/14/1998	10:06a	618	Dprinter.va
06/16/1998	01:18p	419	DPRINTER.W66
04/22/1997	01:05p	487	DPRINTER.Y01
07/07/1998	10:31a	254	DPRINTER.Z12
09/14/1998	11:07a	563	Dprinter.zb
09/14/1998	11:11a	563	Dprinter.zc
06/15/1998	11:52a	3,778	DSCREEN.A06
07/13/1998	09:55a	557	DSCREEN.A07
07/13/1998	07:40a	501	DSCREEN.A27
07/13/1998	09:57a	392	DSCREEN.A51
05/18/1998	03:26p	770	DSCREEN.A62
06/08/1998	03:27p	392	DSCREEN.A90
07/13/1998	10:03a	582	DSCREEN.AC1
10/01/1997	08:48a	213	DSCREEN.ASA
04/22/1997	01:05p	265	DSCREEN.B0F
07/13/1998	10:03a	582	DSCREEN.B10
07/13/1998	10:10a	498	DSCREEN.B45
09/30/1997	10:00a	692	DSCREEN.B46
07/13/1998	10:21a	552	DSCREEN.B53
09/30/1997	10:16a	508	DSCREEN.B54
07/13/1998	10:22a	253	DSCREEN.B58
07/13/1998	10:26a	444	DSCREEN.B65
09/30/1997	12:29p	395	DSCREEN.B66
09/30/1997	12:36p	434	DSCREEN.BSA

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04/22/1997	01:05p	598	DSCREEN.C00
07/13/1998	12:19p	554	DSCREEN.C10
07/13/1998	07:46a	504	DSCREEN.C23
07/13/1998	10:34a	338	DSCREEN.C34
09/30/1997	12:40p	397	DSCREEN.CSA
04/22/1997	01:05p	598	DSCREEN.D00
07/13/1998	12:29p	582	DSCREEN.D10
07/13/1998	07:53a	504	DSCREEN.D23
07/13/1998	10:36a	257	DSCREEN.D34
09/14/1998	10:46a	662	Dscreen.df
04/22/1997	01:05p	524	DSCREEN.E00
07/13/1998	12:38p	666	DSCREEN.E10
07/13/1998	07:55a	450	DSCREEN.E23
07/13/1998	10:37a	257	DSCREEN.E34
09/30/1997	12:48p	441	DSCREEN.ESA
10/23/1997	07:28a	178	DSCREEN.F00
07/13/1998	12:44p	665	DSCREEN.F10
07/13/1998	07:59a	992	DSCREEN.F23
07/13/1998	02:07p	798	DSCREEN.F8B
04/22/1997	01:05p	598	DSCREEN.G00
07/13/1998	12:49p	586	DSCREEN.G10
07/13/1998	09:41a	558	DSCREEN.G23
09/30/1997	12:55p	394	DSCREEN.GSA
04/22/1997	01:05p	487	DSCREEN.H00
07/13/1998	12:53p	612	DSCREEN.H10
07/13/1998	09:42a	558	DSCREEN.H23
04/16/1997	02:29p	80	DSCREEN.HSA
04/22/1997	01:05p	598	DSCREEN.I00
07/13/1998	01:31p	668	DSCREEN.I10
07/13/1998	09:52a	450	DSCREEN.I23
04/22/1997	01:05p	265	DSCREEN.ISA
04/22/1997	01:05p	117	DSCREEN.JSA
04/22/1997	01:05p	117	DSCREEN.KSA
04/22/1997	01:05p	228	DSCREEN.OSA
09/30/1997	02:01p	470	DSCREEN.PSA
04/22/1997	01:05p	487	DSCREEN.R00
07/13/1998	12:26p	555	DSCREEN.R10
07/13/1998	09:53a	450	DSCREEN.R23
07/13/1998	10:35a	257	DSCREEN.R34
09/30/1997	12:42p	511	DSCREEN.R70
04/22/1997	01:05p	413	DSCREEN.T00
07/13/1998	12:56p	668	DSCREEN.T10
07/13/1998	09:53a	504	DSCREEN.T23
12/03/1999	01:49a	527	Dscreen.ta
09/14/1998	10:10a	612	Dscreen.tb
03/11/1998	01:36p	368	DSCREEN.TER
05/09/2002	06:59p	400	Dscreen.top
09/14/1998	10:06a	618	Dscreen.va
06/16/1998	01:18p	419	DSCREEN.W66
04/22/1997	01:05p	487	DSCREEN.Y01
07/07/1998	10:31a	254	DSCREEN.Z12
09/14/1998	11:07a	563	Dscreen.zb
09/14/1998	11:11a	563	Dscreen.zc
01/28/1998	11:13a	23	dummy.dat
		307	File(s) 140,167 bytes

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Directory of C:\jmvw\Noddsfls\globalhwd

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0 File(s)      0 bytes
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01/09/1998  01:28p      596 D0133.BMP
01/09/1998  01:28p      596 D0144.BMP
01/09/1998  01:28p      588 D0800.BMP
06/10/1998  07:29a      630 D0801.BMP
06/10/1998  07:29a      630 D0802.BMP
06/10/1998  07:29a      630 D0803.BMP
06/10/1998  07:29a      630 D0804.BMP
01/09/1998  01:28p      596 D0805.BMP
01/09/1998  01:28p      588 D0806.BMP
01/09/1998  01:28p      588 D0807.BMP
01/09/1998  01:28p      588 D0808.BMP
01/09/1998  01:28p      588 D0809.BMP
01/09/1998  01:28p      630 D0810.BMP
01/09/1998  01:28p      592 D0811.BMP
01/09/1998  01:28p      588 D0812.BMP
01/09/1998  01:28p      588 D0813.BMP
01/09/1998  01:28p      588 D0814.BMP
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01/09/1998  01:28p      588 D0817.BMP
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06/10/1998  07:29a      630 D0820.BMP
06/10/1998  07:29a      630 D0821.BMP
03/23/2001  06:31p      630 d0822.bmp
03/23/2001  06:31p      630 d0823.bmp
01/09/1998  01:28p      584 D0900.BMP
01/09/1998  01:28p      596 D0950.BMP
01/09/1998  01:28p      600 D0960.BMP
01/09/1998  01:28p      596 D0961.BMP
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01/09/1998  01:28p      592 D1000.BMP
01/09/1998  01:28p      592 D1001.BMP
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01/09/1998  01:28p      596 D1003.BMP
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08/29/2001  09:01p      630 D1005.BMP
01/09/1998  01:28p      596 D1006.BMP
01/09/1998  01:28p      596 D1007.BMP
01/09/1998  01:28p      596 D1008.BMP
01/09/1998  01:28p      596 D2000.BMP
01/09/1998  01:28p      596 D2001.BMP
01/09/1998  01:28p      596 D2002.BMP
01/09/1998  01:28p      596 D2003.BMP
01/09/1998  01:28p      596 D2004.BMP
01/09/1998  01:28p      596 D2005.BMP
01/09/1998  01:28p      596 D2006.BMP
01/09/1998  01:28p      596 D2007.BMP
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04/08/1998	01:30p	630	D2008.BMP
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01/09/1998	01:28p	596	D2010.BMP
10/07/1998	01:18p	630	D2011.bmp
04/08/1998	01:30p	630	D2020.BMP
04/08/1998	01:30p	630	D2021.BMP
04/08/1998	01:30p	630	D2022.BMP
04/08/1998	01:30p	630	D2023.BMP
01/09/1998	01:28p	596	D2200.BMP
01/09/1998	01:28p	596	D2201.BMP
01/09/1998	01:28p	596	D2203.BMP
01/09/1998	01:28p	596	D2205.BMP
01/09/1998	01:28p	596	D2206.BMP
01/09/1998	01:28p	596	D2207.BMP
01/09/1998	01:28p	592	D2208.BMP
01/09/1998	01:28p	596	D2209.BMP
01/09/1998	01:28p	596	D2210.BMP
01/09/1998	01:28p	600	D2211.BMP
04/08/1998	01:30p	630	D2212.BMP
03/23/2001	06:31p	630	d2213.bmp
03/23/2001	06:31p	630	d2214.bmp
03/23/2001	06:31p	630	d2215.bmp
04/09/1998	09:58a	630	D2220.BMP
04/09/1998	09:58a	630	D2221.BMP
03/30/1998	01:05p	630	D2311.BMP
03/30/1998	01:05p	630	D2315.BMP
03/30/1998	01:05p	630	D2319.BMP
03/30/1998	01:05p	630	D2321.BMP
03/30/1998	01:05p	630	D2325.BMP
03/30/1998	01:05p	630	D2329.BMP
03/30/1998	01:05p	630	D2330.BMP
03/30/1998	01:05p	630	D2331.BMP
03/30/1998	01:05p	630	D2332.BMP
03/30/1998	01:05p	630	D2333.BMP
03/30/1998	01:05p	630	D2335.BMP
03/30/1998	01:05p	630	D2339.BMP
06/10/1998	02:08p	630	D2400.BMP
06/10/1998	02:08p	630	D2401.BMP
06/10/1998	02:08p	630	D2402.BMP
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01/09/1998	01:28p	596	D3001.BMP
01/09/1998	01:28p	596	D3002.BMP
01/09/1998	01:28p	596	D3010.BMP
01/09/1998	01:28p	596	D3011.BMP
01/09/1998	01:28p	596	D3012.BMP
01/09/1998	01:28p	596	D3020.BMP
01/09/1998	01:28p	596	D3021.BMP
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01/09/1998	01:28p	596	D3070.BMP
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01/09/1998	01:28p	596	D4060.BMP
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01/09/1998	01:28p	592	D4080.BMP
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01/09/1998	01:28p	596	D4087.BMP
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01/09/1998	01:28p	596	D4102.BMP
01/09/1998	01:28p	596	D4103.BMP
01/09/1998	01:28p	596	D4105.BMP
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01/09/1998	01:28p	596	D5104.BMP
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08/29/2001	09:01p	596	d5404.bmp
08/29/2001	09:01p	596	d5405.bmp
08/29/2001	09:01p	596	d5406.bmp
08/29/2001	09:01p	596	d5407.bmp
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01/09/1998	01:28p	592	D7101.BMP
01/09/1998	01:28p	592	D7102.BMP
01/09/1998	01:28p	592	D7103.BMP
01/09/1998	01:28p	592	D7104.BMP
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01/09/1998	01:28p	592	D8203.BMP
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03/12/1998	01:38p	630	D9036.bmp
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01/09/1998	01:28p	596	U0810.BMP
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06/10/1998	07:29a	630	U0818.BMP
06/10/1998	07:29a	630	U0819.BMP
06/10/1998	07:29a	630	U0820.BMP
06/10/1998	07:29a	630	U0821.BMP
03/23/2001	06:31p	630	u0822.bmp
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01/09/1998	01:28p	600	U0962.BMP
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01/09/1998	01:28p	596	U0970.BMP
01/09/1998	01:28p	596	U1000.BMP
01/09/1998	01:28p	596	U1001.BMP
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08/29/2001	09:01p	630	U1005.BMP
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01/09/1998	01:28p	608	U1008.BMP
01/09/1998	01:28p	608	U2000.BMP
01/09/1998	01:28p	604	U2001.BMP
01/09/1998	01:28p	604	U2002.BMP
01/09/1998	01:28p	608	U2003.BMP
01/09/1998	01:28p	608	U2004.BMP
01/09/1998	01:28p	608	U2005.BMP
01/09/1998	01:28p	592	U2006.BMP
01/09/1998	01:28p	600	U2007.BMP
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10/07/1998	01:18p	630	U2011.bmp
04/08/1998	01:30p	630	U2020.BMP
04/08/1998	01:30p	630	U2021.BMP
04/08/1998	01:30p	630	U2022.BMP
04/08/1998	01:30p	630	U2023.BMP
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01/09/1998	01:28p	608	U2210.BMP
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03/23/2001	06:31p	630	u2213.bmp
03/23/2001	06:31p	630	u2214.bmp
03/23/2001	06:31p	630	u2215.bmp
04/09/1998	09:58a	630	U2220.BMP
04/09/1998	09:58a	630	U2221.BMP
03/30/1998	01:05p	630	U2311.BMP
03/30/1998	01:05p	630	U2315.BMP
03/30/1998	01:05p	630	U2319.BMP
03/30/1998	01:05p	630	U2321.BMP
03/30/1998	01:05p	630	U2325.BMP
03/30/1998	01:05p	630	U2329.BMP
03/30/1998	01:05p	630	U2330.BMP
03/30/1998	01:05p	630	U2331.BMP
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03/23/2001	06:31p	630	u4004.bmp
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01/09/1998	01:28p	608	U4110.BMP
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01/09/1998	01:28p	600	U5102.BMP
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12/03/1999	01:50a	630	U5300.BMP
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01/14/2000	01:02a	630	U5303.BMP
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01/09/1998	01:28p	608	U7003.BMP
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01/09/1998	01:28p	600	U7007.BMP
01/09/1998	01:28p	596	U7008.BMP
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01/09/1998	01:28p	600	U7104.BMP
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06/02/1998	01:58p	630	U7201.BMP
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03/12/1998	01:38p	630	U9060.bmp
03/12/1998	01:38p	630	U9072.bmp
03/12/1998	01:38p	630	U9084.bmp
03/12/1998	01:38p	630	U9096.bmp
03/12/1998	01:38p	630	U9108.bmp
03/12/1998	01:38p	630	U9120.bmp
03/12/1998	01:38p	630	U9132.bmp
03/12/1998	01:38p	630	U9144.bmp
03/12/1998	01:38p	630	U9168.bmp
03/12/1998	01:38p	630	U9192.bmp
03/12/1998	01:38p	630	U9216.bmp
03/12/1998	01:38p	630	U9240.bmp
03/12/1998	01:38p	630	U9264.bmp
03/12/1998	01:38p	630	U9288.bmp
03/12/1998	01:38p	630	U9312.bmp
03/12/1998	01:38p	630	U9336.bmp

447 File(s) 324,140 bytes

Directory of C:\jmwin\Noddsfls\images

10/12/2001	03:48p	<DIR>	.
10/12/2001	03:48p	<DIR>	..
03/23/2001	06:31p	5,078	clear.bmp
03/23/2001	06:31p	5,078	cold.bmp
03/23/2001	06:31p	19,574	fnmocl.bmp
03/23/2001	06:31p	5,078	fog.bmp
03/23/2001	06:31p	5,078	hail.bmp
03/23/2001	06:31p	5,078	hot.bmp
03/23/2001	06:31p	5,078	ovcst.bmp
03/23/2001	06:31p	5,078	pcldy.bmp
03/23/2001	06:31p	5,078	rain1.bmp
03/23/2001	06:31p	5,078	rain2.bmp
03/23/2001	06:31p	5,078	rainsnow.bmp
03/23/2001	06:31p	5,078	sleet.bmp
03/23/2001	06:31p	5,078	snow1.bmp
03/23/2001	06:31p	5,078	snow4.bmp
03/23/2001	06:31p	5,078	tstm1.bmp
03/23/2001	06:31p	5,078	tstm2.bmp
03/23/2001	06:31p	5,078	windy.bmp

17 File(s) 100,822 bytes

Directory of C:\jmwin\Noddsfls\shows

---

```
04/12/2002 11:55a <DIR> .
04/12/2002 11:55a <DIR> ..
0 File(s) 0 bytes
```

Directory of C:\jmvwini\Noddsfls\Storms

```
10/12/2001 03:48p <DIR> .
10/12/2001 03:48p <DIR> ..
0 File(s) 0 bytes
```

Directory of C:\jmvwini\Noddsfls\terrain

```
04/15/2002 09:43a <DIR> .
04/15/2002 09:43a <DIR> ..
11/29/1999 12:21p 925,064 adminBdys.bin
01/08/1999 03:27p 18,671,040 DepHgt.BIN
05/13/1997 10:20a 89,496,428 gshhs0.rim
09/16/1999 03:26p 20,775,224 gshhs1.rim
10/06/1999 11:12a 1,109,192 gshhs3.rim
05/06/1997 02:37p 259,200 rangs0.cat
02/01/1999 10:10a 6,518,664 rangs0.cel
09/16/1999 03:26p 259,200 rangs1.cat
09/16/1999 03:26p 5,945,492 rangs1.cel
10/06/1999 11:12a 259,200 rangs3.cat
10/06/1999 11:12a 3,398,642 rangs3.cel
11 File(s) 147,617,346 bytes
```

Directory of C:\jmvwini\Noddsfls\Tracks

```
10/12/2001 03:46p <DIR> .
10/12/2001 03:46p <DIR> ..
0 File(s) 0 bytes
```

Directory of C:\jmvwini\Noddsfls\upperair

```
10/12/2001 03:46p <DIR> .
10/12/2001 03:46p <DIR> ..
0 File(s) 0 bytes
```

Directory of C:\jmvwini\Noddsfls\Warngen

```
10/12/2001 03:46p <DIR> .
10/12/2001 03:46p <DIR> ..
07/08/1998 09:26a 1,950 AOR.DAT
07/13/1998 06:35a 1,120 Baltic Gold Winds.wmt
07/09/1998 11:21a 53 Baltic Gold.aad
07/17/1998 12:44p 24 counters.dat
07/13/1998 06:35a 1,156 Eastern Pacific Gold Seas.wmt
07/13/1998 06:35a 1,087 Eastern Pacific Gold Winds.wmt
07/08/1998 09:23a 19 Eastern Pacific.aad
07/08/1998 09:24a 136 Eastern Pacific.iad
07/08/1998 09:29a 209 Eastern Pacific.ref
07/17/1998 12:44p 2,252 Eastern Pacific.wmt
07/08/1998 09:49a 435 Mediterranean.aad
07/08/1998 09:50a 36 Mediterranean.ref
07/13/1998 06:36a 2,622 Mediterranean.wmt
07/13/1998 06:36a 1,118 North Atlantic Gold Seas.wmt
07/13/1998 06:36a 1,094 North Atlantic Gold Winds.wmt
07/09/1998 10:50a 52 North Atlantic Gold.aad
```

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```
07/08/1998 10:14a 356 North Atlantic.aad
07/13/1998 06:36a 2,278 North Atlantic.wmt
07/13/1998 06:36a 1,064 Rota Gold Winds.wmt
07/09/1998 11:08a 51 Rota Gold.aad
07/17/1998 12:44p 21 template.lst
07/13/1998 06:37a 1,148 Western Pacific Gold Seas.wmt
07/13/1998 06:37a 1,078 Western Pacific Gold Winds.wmt
07/08/1998 09:43a 19 Western Pacific.aad
07/08/1998 09:44a 111 Western Pacific.ref
07/13/1998 06:37a 2,199 Western Pacific.wmt
26 File(s)      21,688 bytes
```

Directory of C:\Installs\JMV\_Current\_Release\Noddsfls\warnings

```
10/12/2001 03:46p <DIR> .
10/12/2001 03:46p <DIR> ..
0 File(s)      0 bytes
```

Total Files Listed:

```
1341 File(s)    174,325,683 bytes
```

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## A.2 File Structure for Solaris Delivery

This initial release of JMV 3.7.0.0 pertains only to the Windows version, and does not include a Solaris delivery.

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## APPENDIX B Changes Installed

The following changes and enhancements are included in Release 3700:

- The JMV 3.7 installation program was built with InstallShield version 8.0 that uses Microsoft's Windows installer. This will allow FNMOC to issue software patches as necessary to correct problems or add software enhancements to the released versions of the JMV software.
- The **Special Area** selection dialog has been redesigned to simplify the creation of a Special Area. When the mouse cursor hovers over the border of an area, the area's name will appear in a text box at the lower left corner of the dialog. Select an area by clicking on or within the highlighted area border. Areas are usually created within the Metcast Client Requestor, so please refer to the Metcast Client Users manual, section 5.3.1, **Creating an Area**, for complete details. The area selection dialog may also be accessed via the JMV menu bar, **Fields Area/Define Area** option.
- **JMV Thumbnail Files.** JMV 3.7 includes several enhancements that will simplify the use of both .DAT and .MCT thumbnail files. The most significant enhancement is that the JMV installation program automatically configures the appropriate thumbnail file associations for MS Internet Explorer, Netscape and Mozilla web browsers running on Windows 98, NT, 2000, and XP operating systems. This allows thumbnail files to be immediately processed upon download. However, if desired, users may still download thumbnail files to the desktop and then "drag and drop" the files onto the JMV icon to initiate processing. Both .DAT and .MCT thumbnail files are now processed by the same executable file, Ncspdw.exe (the JMV desktop icon points to this file). The drag and drop processing has been corrected to function on Windows 2000 and Windows XP operating systems, and will still function on Windows 98 and NT. Refer to the Working with Thumbnails section for additional information.
- **Automatic WarnGen High Wind and Seas Contouring.** JMV can automatically contour High Wind and High Seas warning areas via the Automatic Warngen option found in the pull down Tools menu. Refer to the Extratropical Winds and Seas Warnings Section for instructions.
- **JMV Auto Generation (AutoGen) for Slide Shows.** The JMV AutoGen software can automatically publish JMV Slide Shows on the World Wide Web. Automatic updates can be configured to occur when either a product or a ship track is updated. Installation and configuration instructions are provided in the new section titled, JMV Auto Generation for Slide Shows.

- 
- **Sea Synoptic** reports. The Observation Age Restriction settings for Sea Synoptic reports have been changed to 1hr, 6hr, 12hr, 24hr and Unrestricted.
  - The **HWD - Edit Synoptic tool** (found in the HWD Misc. menu no. 6 and used to create station model plots) has been enhanced. Drop down menu options have been added to make data selection easier.
  - A **Change Color Fill Settings** tool button has been added to the tool bin, to quickly launch the change color fill settings dialog.
  - An **AIRMET** button has been added to the Tool Bar Reservoir, to toggle on/off the display of all AIRMET categories.
  - **Set Area Local** and **Set Area Remote** options have been added to the **Tools** menu. These options are activated for Remote Link areas (where data has been downloaded from Metcast Client to JMV via a remote link) The Set area Local option, converts the remote area to a local area to prevent additional data from being downloaded. This option may be used while creating HWD charts to prevent the current chart from updating which can result in the loss of HWD annotations. Area remains local until the Set Area Remote option is selected.
  - **Ship Route Editor** dialog has a new **Status** field, which can be set to either **Approved Track**, or **Proposed Divert Track**. The Remarks entry field has been replaced with a **Comment** button, which opens a larger comment area.
  - An **Export** function has been added to the **Ship Tracks** dialog to export a ship track file in XML format.
  - An **Export** function has been added to the Files menu to export **HWD drawings** in XML format.
  - A **Publish** function has been added to the Ship Tracks dialog to publish a ship track in XML format to a Metcast Channel. This function requires the new Metcast server software that is scheduled for release in the Fall of 2003.
  - **HWD** drawings may be **published** to a Metcast Channel using the **Publish drawing** option in the File menu. As noted above, this function requires the new Metcast server software.
  - **Shape File** improvements. JMV can now read a shape file to determine its color(s). Added ice edge color plot to shape file display. Shape file colors can be associated with text fields in the shape database. Shape files are imported via the File Menu, Open Shape file list option.

- 
- Increased width of **Lat/Lon** lines on printed chart for better visibility.
  - Removed the **Remote Retriever Monitor** from the JMV installation. This feature is now available as a separate download from the FNMOC Website (<http://www.FNMOC.navy.mil>), -Software and Manuals section (password required).
  - Removed the JMV **BId** field from Metar reports.
  - **Precipitation Type, Pressure Vertical Velocity, Planetary Boundary Level, Relative Humidity** and **Surface Visibility** products from the **MM5** model can now be displayed in JMV.
  - **Vapor Pressure, Pressure Vertical Velocity** and **Cloud Cover** products from the **NOGAPS** model can be displayed in JMV.
  - **Precipitation Rate** from the **NCEP AVN** model can now be displayed in JMV.
  - **Relative and Absolute Vorticity** products are now displayed with correct units in the title bar.
  - Added **Appendix B Joint METOC viewer (JMV) Image File Format**, to the JMV Users Guide, which describes the format for imagery ingested by JMV, termed JMV Image Format, or JIF. JIF is a variant of Tag Image File Format (TIFF), with some added information written to TIFF "Image File Directory", which quantifies attributes of the image. It is fully compliant with the TIFF 6.0 specifications (Aldus, 1992), so JIF images can be previewed with most commonly available image viewers.
  - Numerous code enhancements and minor bug fixes to improve performance.

The following changes and enhancements were included in Release 3502:

- **AIRMETs** can now be displayed. See our new “Working with AIRMETS” section for details.
- **PIREPS** can now be displayed. See our new “Working with PIREPS” section for details.
- **D-Values.** JMV now automatically creates D-value contours (Departure value contours) from downloaded height fields. A D-value is the difference between the analyzed (or forecast) height of a pressure surface and the height of that pressure surface as defined by the U.S. Standard Atmosphere. JMV computes the departure values in meters. Negative values indicate that the analyzed (or forecast) pressure level is lower than that of the standard

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atmosphere, while positive values indicate the pressure level is higher than that of the standard atmosphere.

- **3D Cross Sections.** Cross Sections of 3D data may be displayed along an OPARS track.
- **HWD Enhancements.** HWD objects may be edited using the Edit Menu - Edit Drawing Objects - Edit option. HWD objects may be grouped together and then moved as a group to facilitate quicker HWD production through a time series.
- **Tau Display Tools.** Six tau display tools were added to the main toolbin. These tools place a bar graph or clock face directly on a displayed chart, which will indicate the valid time of that chart.

The following changes and enhancements were included in Release 3501:

- **3D Display.** JMV provides the capability to display a variety of atmospheric and oceanographic products as 3D Profiles and Cross Sections. Refer to the Working with 3D Section for complete details.
- **Drawing Tools.** The following enhancements have been added to Drawing Tools: When in draw mode, a text box stating “Drawing Mode” will be displayed in the upper right corner of a display screen. New Draw tools for line types have been added to define Icing areas and non-conductive precipitation areas. Added new symbols for Haze and Smoke. Added blank BMP draw tools so users may register any bitmap image as a Draw Tool symbol. Increased the number of draw tools per page from 18 to 30. Draw tools may now be displayed with a shadow. The line scale parameters for Line Draw Tools may now be viewed and edited. Multiple lines of text are now allowed in Text Draw Tools.

The following changes and enhancements were included in Release 3500:

- **Skew-T.** Improved Skew-T color selection. Added Max wind (Mx Wnd) to the table data area of a Skew-T display.
- **Interpolated charts.** When JMV displays a chart that is an interpolation between two forecast times, it will be labeled as such on the display screen.
- **Remote Area duplication.** When a remote area is duplicated, all files and products are now copied to the local client machine.
- **Color Fill.** Color Fill selections may now be saved and loaded as specific mission profiles.

- 
- **Forecast winds.** When forecast winds are displayed as curved arrows, a consistent color scheme will be maintained throughout the forecast time period.
  - **Tropical Cyclone Warnings.** Added option to archive and restore Tropical Storm Warnings. When viewing a Tropical Storm Warning, the screen display will be automatically updated if a new Tropical Storm warning is received.
  - **AUTODIN Message.** Improved AUTODIN message ingest and error handling. Wind Warnings and High Seas Warnings can now be delivered and ingested for display via an AUTODIN message.
  - **Product Labels.** Added capability to remove Product Labels from the top of a display screen to support certain briefing scenarios.
  - **Latitude and Longitude.** Added option to display latitude labels on the left, right or both sides of a chart display. Longitude labels may be displayed on the top, bottom or both top and bottom. Latitude and Longitude values are now shown in Degrees, Minutes and Seconds. Latitude and Longitude lines are now automatically displayed down to a minimum of five minutes
  - **Alerts.** Alerts may be based upon Wind, Sea, or Swell criteria for Ship Tracks.
  - **Export Graphics.** The size of exported graphics (GIF, JPG, BMP) can be specified. Graphics may now be exported as a series of charts by forecast times, similar to the Loop function. This includes the ability to export time interpolated products between standard forecast times.
  - **Altimeter Setting.** Added capability to change the font size when displaying Altimeter Setting.
  - **Print Text Banner Option.** An optional text banner may be added to the bottom of a printed page.
  - **Data Thinning.** Wind Barb and Wind Arrow data displays, may now be data-thinned and re-sized independently.
  - **Coastal Topography.** When geographic areas are smaller than 2 by 2 degrees, the new full resolution (Level 0) World Vector Shoreline data will be used.

The following changes and fixes were incorporated in Release 3403:

- 
- High Resolution Terrain (1 km) can be added as a map background.
  - Added the capability to automate the updating and printing of slide shows. You can build the basic slide show, selecting products to display on each slide and so forth, and then have the slides automatically updated each time new data are downloaded. The updated slides can be produced in a variety of formats suitable for use in JMV or on web pages, and can also be automatically sent to the printer
  - Added check boxes for lat/lon labels on top/bottom left and right of chart. Added control for direction arrows separate from wind barbs.
  - Implemented various minor bug fixes and performance enhancements.
  - Additions to selarea to allow filtering of satellite areas by server. Also changed areas to be selected by nearest line segment rather than nearest box center.
  - Fixed Spherical projection hi-res browse values. Contour labels now expand to 8 digits. Altimeter settings disp owse to show deg/min/sec resolution. Range and Bearing tool uses high resolution lat/lon, and lay has own font size. Fixed contour line dragging across screen.
  - Mods to Lat/Lon br added high resolution lat/lon ability.
  - Removed test feature that caused topo/bathy to be drawn to 5 min lat/lon grid.
  - All graphic exports ask for size of image. Cleaned up 3D cross-section contour labels and improved Export Size dialog box. Can now export a loop of graphics. Added export progress bar and will remember directory of last export. Fixed minor bugs in export and loop code.
  - Improved BMP image movement and properties dialog box. Added smoke and haze symbols. Added menu to set HWD symbol scales. Added ability to create multi line HWD text. Increased HWD text sized to 256 chars and HWD shadows can now be saved.
  - Can now view and edit the line and symbol scales.
  - Fixed gray band when hiding titles of many products. Contour labels repositioned slightly and labels now contour correctly in large zooms. Label contours are now shown away from boundaries.
  - HWD drawing BMP images can scale. Increased HWD text sized to 256 chars and HWD shadows can now be saved. Icon tool properties dialog changes the label from text to file name for images.

- 
- Mods to shrink lat/lon label when lat/lon is turned off.
  - Mods to abort and give clear message when out of memory during a loop instead of crashing.
  - Added button and menu items to suppress product titles and added new icons for new HWD tools.
  - Mod to add "AUTO" to mailcap pro pdata line when required. Mods to correct slideshow loading problem with directory names that contain extraneous characters.
  - Added icon for new image tool. Added new bitmap (BMP) toolbar, a HWD drawing tool to place the bmp images, and an HWD tool to show bmp images. Added two new icons, two new drawing tools and a new CAT line for HWD. Removed Drawing Mode text from exports and prints.
  - Fixed end of leap year ship route calculation bug. Fixed yearend CPA calculation when ship crosses year meridian. Added labels to Cross-section contours. Improved cross section contours to favor major contours. Fixed Geo Image background when looping in memory. Fixed bug in file diff. Remote area files can now be differenced.
  - Updated software version number for current release.

The following changes and fixes were incorporated in Release 3402:

- Updated software version number for current release.
- Changed Dup Area to copy the contents of remote areas not just the pointer.
- Added text to corner of screen to show when user is in draw mode.
- Fixed bug in ship route alerts that reported the max incorrectly when winds were decreasing. Added 2 more file types for ship route alerts. Improved ship route alert code by adding table of ship alert products. Added max wind and seas text to ship route alert and fixed alert color bug and added safety factor in creating alert text.
- Added hook to the front of the max wind barb in skewt display and added a maximum wind speed in the analysis column.
- Modified pro pdata to resolve a problem created by last change. Added a new command line directive "PROCGRIBFILE" to process a single grib file. Avoids the problem with using the 3rd parameter to determine the file name in a PROCGRIB directive, which conflicted with using the 3rd parameter as the number of revisions to save.

- 
- Changed warning processing to only check the name portion of the filename when looking a file to replace.
  - Added two modes to proCDATA. One will process a single grib file and quit if a third parameter (file name) is added to the PROCGRIB command line. The second mode is a CLEANGRIB command line, which will clean up after grib processing and make the missing.dat file. These changes do not alter the way proCDATA is currently being used.
  - Added 2 colors to the general colors dialog for sea depth and land height. Fixed units problem in select products dialog. Another fix for bug in ship route display causing bad route segments when crossing the prime meridian.

Release 3.4.0.1 includes the following changes and fixes:

- Updated software version number for current release.
- Implemented various minor bug fixes and performance enhancements.
- New retriever program overcomes some difficulties with the old one. The new file calls proCDATA separately for each grib file found. It thus starts processing grids earlier and multi-threads more efficiently than the old program, resulting in improved overall performance.
- Modified proCDATA to resolve a problem created by last change. Added a new command line directive "PROCGRIBFILE" to process a single grib file. Avoids the problem with using the 3<sup>rd</sup> parameter to determine the file name in a PROCGRIB directive, which conflicted with using the 3<sup>rd</sup> parameter as the number of revisions to save.
- Change warnings processing to only check the name portion of the filename when looking for a file to replace.
- Added two modes to proCDATA.exe. One will process a single grib file and quit if a third parameter (file name) is added to the PROCGRIB command line. The second mode is a CLEANGRIB command line, which will clean up after grib processing and make the missing.dat file. These changes do not alter the way proCDATA is currently being used.
- Fixed problem in Select Products dialog box, that prevented the display of a newly selected unit for either temperature ('F or 'C) or wind speed (Kts or Mph).
- Added two colors to the general colors dialog box for sea depth and land height.
- Modified Metar decoding of station model plots to correctly display station pressure.

- 
- Corrected problem with spurious lines drawn on map when a ship route goes from great circle to rhumb line along a parallel, or when a rhumb line track along a parallel crosses the prime meridian.
  - Skew-T chart display: changed Lifted Index to a unit less number, added new color routines, added new colors for the dew point curves, fixed a bug in the color list, and fixed the offset of the displayed Skew-T page.
  - Added “Save” and “Load” buttons to the Color Fill settings dialog box.
  - Modified write to proCDATA.txt to try 50 times with a 5 second sleep interval.
  - Fixed auto print problem when high-resolution geography is selected. Added capability to turn off sunrise/sunset on auto prints.
  - Changed maximum looping interpolation to 12 hours. Chart title will now state when data is being interpolated.
  - Modified Remote areas to now use remote warnings.
  - Added a new dialog box to ship route, which allows the set up of ship alerts. Ship route alerts are now saved in the ship file.
  - Modified ship routes to automatically redisplay a route when an area is reopened.
  - Added a “Both” option to Terrain configuration. Options now are Color Fill, Contour or Both.
  - Modified display so that Thumbnail 3D files will plot in JMV areas.
  - Corrected error in release version that caused a crash in one Tropical Alert case.
  - Corrected display of status bar when an area is scheduled.
  - Added function to delete all Tropical Cyclone tracks.
  - In the “Choose Area Type” Window of the “Create an Area” Option, the name of the North Pole area has been changed to North Polar, and South Pole has been changed to South Polar.
  - Corrected inconsistencies in the color of curved wind arrows over a forecast period during looping of F-Type and JMV-Type files.

- 
- Improved New Tropical Storm file selection dialog title. Removed “Save as” button in New tropical storm data entry dialog box.
  - Corrected problems in shading of Sunrise/Sunset and twilight displays.
  - Fixed bug related to use of the “Clear All” button.
  - Modified METAR block\_id to show the zero.
  - Fixed bug in remote areas with ocean products.

Release 3.4.0.0 includes the following changes and fixes:

- Added sunrise/sunset and twilight lines to map displays.
- Added display of local noon position.
- Added a feature in the Skew-T display to show PIBAL reports.
- Added high-resolution topography display.
- Increased the number of products that can be displayed on the map from 5 to 10.
- Changed the observation display boxes to permit viewing of multiple station reports and addition of multiple stations to the METAR and TAF lists.
- Added station monitoring and alert capability.
- Changed program version numbers to 3.4.0.0.
- Implemented various minor bug fixes and performance improvements.

Release 3.3.0.1 implements the following fixes:

- Changed program version numbers to 3.3.0.1.
- Fixed a Dr. Watson error in Windows that occurred when METARS were displayed on the map display and being constantly updated.

Release 3.3.0.0 implemented the following fixes:

- Changed major program version numbers to 3.3.0.0.

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- Modified the EmptyDirectory function in selarea.exe to check whether the directory from which it attempts to delete all files is either NODDSFLS or JMVWIN. If this is the case, the program is terminated with an error message.
  - Fixed delarea.exe to remove 2 more subdirectories when an area is deleted.
  - Fixed problem in selarea.exe, which allowed invalid area names to be entered (such as '%').
  - Corrected error in mdisplay.exe causing small gaps in high-res coastlines near lat/lon lines.

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## APPENDIX C Known Problems and Errors

1. The new JMV Autogeneration for Slide shows software, which automatically publishes JMV slide shows on a Web server, contains an error that incorrectly sets image display parameters for the slide shows. This results in poor slide show image quality when viewed on the web server. A simple work around is detailed in the Installing Autogen – Client Installation and Configuration section of the JMV Users Guide. The problem will be fixed in a future version of the software.
2. For proper operation, Metcast Client, JMV and Quick Weather must share certain files and directories. Because of this, the “jmwin” directory and several sub-directories and files will remain on your PC after uninstalling the JMV, Metcast and Quick Weather programs. To remove all traces of these three programs, the following procedure is required: Uninstall JMV, Metcast Client and Quick Weather using the provided uninstall programs; located in the Start menu - SPAWAR folder (when uninstalling JMV and Metcast, the uninstall shield will ask whether or not the user wishes to remove shared files. The correct response is “yes to all”). After uninstalling all three programs, shut down and restart the PC. The “jmwin” folder will remain on the drive that was specified during the install process. Navigate to the jmwin folder, and delete it, and all of its contents.

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